

Patent Claims

1 1. A fuel injection nozzle having a cooling duct
2 which is arranged in the combustion chamber side end region of
3 the housing, characterized in that the cooling duct (6) is
4 arranged closer to the nozzle needle bore (2) than to the
5 outside of the housing (1) and has a cross sectional face whose
6 width is dimensioned so as to be at most equal to the height
7 extending in the axial direction (A-A) of the nozzle.

1 2. The fuel injection nozzle as claimed in claim 1,
2 characterized in that the width of the cooling duct (6) is 0.1
3 to 0.9 times the height.

1 3. The fuel injection nozzle as claimed in one of
2 the preceding claims, characterized in that the width of the
3 cooling duct (6) is approximately 0.25 times the height.

1 4. The fuel injection nozzle as claimed in one of
2 the preceding claims, characterized in that the cooling duct (6)
3 extends as far as the height of the nozzle needle seat (3) on
4 the combustion chamber side.

1 5. The fuel injection nozzle as claimed in one of
2 the preceding claims, characterized in that the cross sectional
3 face of the cooling duct (6) is approximately twice the cross
4 sectional face of the cooling medium inflow line (7).